



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

h. n

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/576,449	04/20/2006	Tomoaki Nishikido	L9289.06147	3457

52989 7590 12/13/2007  
STEVENS, DAVIS, MILLER & MOSHER, LLP  
1615 L. STREET N.W.  
SUITE 850  
WASHINGTON, DC 20036

EXAMINER
----------

MANCUSO, HUEDUNG XUAN CAO

ART UNIT	PAPER NUMBER
----------	--------------

2821

MAIL DATE	DELIVERY MODE
-----------	---------------

12/13/2007

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

<b>Office Action Summary</b>	<b>Application No.</b> 10/576,449	<b>Applicant(s)</b> NISHIKIDO ET AL.	
	<b>Examiner</b> Huedung Cao Mancuso	<b>Art Unit</b> 2821	

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --**  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 15 November 2006.
- 2a) ☐ This action is **FINAL**.                      2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-7 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-7 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 4/20/06 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)          | 4) <input type="checkbox"/> Interview Summary (PTO-413)           |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____                                      |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)          | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date <u>11/15/06, 04/20/06</u>                                      | 6) <input type="checkbox"/> Other: _____                          |

## DETAILED ACTION

### *Claim Rejections - 35 USC § 102*

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1-7 are rejected under 35 U.S.C. 102(b) as being anticipated by Hideaki et al. (EP 1 168 658 A1)

As to claim 4, Hideaki teaches a mobile radio apparatus that is foldable and that has a mechanism joining a first case and second case at a hinge part allowing said mobile radio apparatus to open and close, said mobile radio apparatus comprising: a first flat conductor 1 placed on a first plane inside the first case along a length direction of the first case, and a second flat conductor 2 and third flat conductor 11 placed on a second plane facing a first plane inside the first case along the length direction of the first case; and a power supply section 5 that supplies power to the first flat conductor and supplies power selectively to the second flat conductor or the third flat conductor at a different phase from the phase power is supplied to the first flat conductor see Hideaki (paragraph [0040]).

As to claim 2-7, wherein a detecting section that detects an inclination angle of the apparatus; and a control section that controls power supply to the second flat conductor or the third flat conductor according to the inclination angle detected by the detecting section; the control section controls a phase difference between the phase power is supplied to the first flat

conductor and the phase power is supplied to the second flat conductor or the third flat conductor, according to the inclination angle detected by the detecting section; a measuring section that measures a reception level, and a mobile radio apparatus, wherein the control section controls switching between the second flat conductor and third flat conductor in case that the reception level is less than a predetermined value; the first and second flat conductors placed on a first plane inside the first case along a length direction of the first case; and a power supply section that supplies power to the second flat conductor at a different phase from the phase power is supplied to the first flat conductor; the first flat conductor and the second flat are placed so that a direction of a primary polarized wave is the same as a width direction of the first case; a detecting section that detects an inclination angle of the apparatus; and a control section that controls a phase difference between the phase power is supplied to the first flat conductor and the phase power is supplied to the second flat conductor according to the inclination angle detected by the detecting section see Hideaki (paragraphs [0032-0047])

*Inquiries*

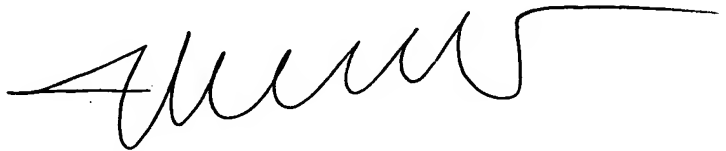
3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Huedung Mancuso whose telephone number is (571) 272-1939.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Douglas Owens, can be reached on (571) 272-1662. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

4. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Huedung Mancuso

Patent Examiner

A handwritten signature in black ink, appearing to read 'Huedung Mancuso', with a long horizontal line extending to the right.